AMENDMENTS TO THE CLAIMS

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 (Original) A method for enhancing a digital signal, comprising: receiving a compressed digital signal from a modulated communication and/or storage medium; and

modifying the digital signal such that an enhancement aspect is composited within a redundant aspect of the digital signal forming an enhanced digital signal.

- 2. (Original) An enhanced digital signal formed according to the method of claim 1.
- 3. (Original) The method of claim 1, further comprising the steps of:

decoding the compressed digital signal according to a standard method to form a standard decoded frame;

demultiplexing meta data associated with the digital signal;

upsampling the digital signal according to the meat data;

interpolating a first image frame prediction based on the results of the standard decoding and the upsampling; and

fusing the standard decoded frame, the interpolated standard decoded frame, and one or more previously enhanced frames.

- 4. (Currently Amended) A digital signal enhancer, comprising:
- a digital signal receiver for receiving a compressed digital signal from a modulated communication and/or storage medium; and
 - a digital signal modifier coupled to the digital signal receiver;

wherein said digital signal modifier is configured to composite for compositing an enhancement aspect within a redundant aspect of the compressed digital signal.

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- 5. (Original) The digital signal enhancer of claim 4, wherein the digital signal enhancer comprises reverse superresolution coding.
- 6. (Original) A method for diffusing data within standard-coded digital image data, comprising the steps of:

identifying a compressed image aspect in a series of compressed image representations;

determining redundant representations of the compressed image aspect within the series of compressed image representations; and

modifying a redundant representation to form a modified-representation such that the aspect is more completely conveyed by the series of compressed image representations.

7. (Original) The method of claim 6, further comprising the steps of:

comparing the modified-representation with an alternatively-modified representation to form a comparison; and

causing the modified-representation or alternatively-modified representation to be formed in accordance with the comparison.

- 8. (Original) A modified representation formed according to the method of claim 6.
 - 9. (Original) A diffuser comprising:

means for identifying an image aspect in a series of compressed image representations;

means for determining redundant representations of the image aspect within further series of image representations; and

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means for modifying a redundant representation such that the aspect is more completely conveyed by the series of compressed image representations.

10. (Original) The diffuser of claim 9, wherein:

the means for identifying the image aspect in the series of compressed image representations comprises a compressed image aspect detector;

the means for determining redundant representations of the image aspect within further series of image representations comprises a redundant compressed image aspect representation detector coupled to the compressed image aspect detector; and

the means for modifying the redundant representation such that the aspect is more completely conveyed by the series of compressed image representations comprises a redundant representation modifier coupled to the redundant compressed image aspect representation detector.

11. (Original) A method of enhancing a video frame, comprising the steps of:

enhancing a first image frame in an encoder;

analyzing the first image frame to determine a coding and a reconstruction of the first image frame;

optimizing a sequential frame based at least partly on the coding and reconstruction of the first image frame.

12. (Original) The method of claim 11, further comprising the steps of:

injecting a controlled alias signal component into an encoded video signal in the encoder; and

describing the controlled alias signal component in meat-data associated with the encoded video signal.

13. (Original) The method of claim 11, further comprising the step of:

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fusing the first frame and the sequential frame via an enhanced reconstruction technique such that the first frame and the sequential frame have a substantially consistent quality.

14. (Currently Amended) A <u>computer-implemented</u> method of image fusion, comprising the steps of:

measuring and analyzing elements from a bitstream, the bitstream comprising standard decoded images, interpolated standard decoded images, and enhanced reconstructed images;

processing frame, macroblock, and block parameters;

establishing confidence levels for one or more fusion stages; constraining and

guiding a fusion data construction based on the measurement and analysis results; and

controlling one or more data fusion operators by optical flow measurements and analysis.

- 15. (Currently Amended) The <u>computer-implemented</u> method of claim 14, wherein the one or more fusion stages are selected from optical path coding modes and prediction block coding modes.
- 16. (Currently Amended) A <u>computer-implemented</u> method of upsampling interpolation, comprising the steps of:

predicting a first enhanced image from a standard decoded image; and interpolating the standard decoded image, the interpolation occurring in accordance with one or more meta data parameters.

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17. (Currently Amended) The <u>computer-implemented</u> method of claim 16, wherein the interpolation also occurs in accordance with one or more measurements of the standard decoded image.

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